

Serial No. 10/715,317
Filing Date: November 17, 2004
Amendment and Response
Page 2 of 10

RECEIVED
CENTRAL FAX CENTER
MAR 19 2007

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims.

Listing of Claims

1. (Currently Amended) A flame resistant fabric, comprising:
a plurality of flame resistant body yarns that form a body of the fabric; and
a plurality of relatively tough yarns provided in discrete positions within the fabric body, wherein at least some the relatively tough yarns comprising each comprises a filament yarn that includes comprises a filament composed of comprising at least one of a polyolefin, flame resistant polyester, polytetrafluoroethylene, polyetheretherketone, polyetherimide, polysulfar, polyimide, polyamide, polyimideamide, polybenzoxazole, polybenzimidazole, carbon, and or glass;
wherein the relatively tough yarns do not protrude beyond an outer surface of the fabric body. can shield at least some of the relatively tough yarns from abrasion.
2. (Currently Amended) The fabric of claim 1, wherein at least some the body yarns comprise spun yarns, wherein at least some of the spun yarns comprise that are composed of at least one of a meta-aramid, para-aramid, flame resistant cellulosic material, flame resistant wool, flame resistant polyester, polyvinyl alcohol, polytetrafluoroethylene, polyvinyl chloride, polyetheretherketone, polyetherimide, polysulfar, polychlal, polyimide, polyamide, polyimideamide, polyolefin, polybenzoxazole, polybenzimidazole, carbon, modacrylic, and or melamine.
3. (Original) The fabric of claim 1, wherein the relatively tough yarns are arranged in a grid pattern within the fabric body.
4. (Original) The fabric of claim 3, wherein the grid pattern is formed by single relatively tough yarns.
5. (Original) The fabric of claim 3, wherein the grid pattern is formed by groups of two or more relatively tough yarns that are woven along with each other in the fabric body.
6. (Currently Amended) The fabric of claim 1, wherein at least some the filament yarns include comprise a filament composed of comprising at least one of polybenzoxazole, carbon, and or high density polyethylene.

US2000 9776983 1

Serial No. 10/715,317
Filing Date: November 17, 2004
Amendment and Response
Page 3 of 10

7. (Currently Amended) The fabric of claim 1, wherein at least some of the filament yarns include one or more comprise at least one polybenzoxazole filaments.

8. (Currently Amended) The fabric of claim 1, wherein at least some of the filament yarns have a weight between weights in the range of approximately 50 to and 600 denier, inclusive.

9. (Currently Amended) The fabric of claim 1, wherein the at least some the relatively tough yarns each further include comprises a spun yarn composed of comprising at least one of a meta-aramid, para-aramid, flame resistant cellulosic material, flame resistant wool, flame resistant polyester, polyvinyl alcohol, polytetrafluoroethylene, polyvinyl chloride, polyetheretherketone, polyetherimide, polysulfar, polychlal, polyimide, polyamide, polyimideamide, polyolefin, polybenzoxazole, polybenzimidazole, carbon, modacrylic, and or melamine.

10. (Currently Amended) The fabric of claim 9, wherein at least some of the spun yarns have yarn counts of approximately between 8 to and 55, inclusive.

11. (Currently Amended) The fabric of claim 1, wherein the at least some the relatively tough yarns further include comprise a plurality of flame resistant fibers.

12. (Currently Amended) The fabric of claim 11, wherein at least some of the flame resistant fibers are composed of comprise at least one of a meta-aramid, para-aramid, flame resistant cellulosic material, flame resistant wool, flame resistant polyester, polyvinyl alcohol, polytetrafluoroethylene, polyvinyl chloride, polyetheretherketone, polyetherimide, polysulfar, polychlal, polyimide, polyamide, polyimideamide, polyolefin, polybenzoxazole, polybenzimidazole, carbon, modacrylic, and or melamine.

13. (Currently Amended) A protective garment, comprising: the fabric of claim 1.
~~a flame resistant fabric including;~~
~~a plurality of flame resistant body yarns that form a body of the fabric, and~~
~~a plurality of relatively tough yarns provided in discrete positions within the fabric body, the relatively tough yarns comprising a filament yarn that includes a filament composed of one of polyolefin, flame resistant polyester, polytetrafluoroethylene, polyetheretherketone, polyetherimide, polysulfar, polyimide, polyamide, polyimideamide, polybenzoxazole, polybenzimidazole, carbon, and glass;~~

US2000 9776983.1

Serial No. 10/715,317
Filing Date: November 17, 2004
Amendment and Response
Page 4 of 10

~~wherein the fabric can shield at least some of the relatively tough yarns from abrasion.~~

14. (Currently Amended) The garment of claim 13, wherein at least some of the body yarns comprise spun yarns ~~that are composed of~~ comprising at least one of a meta-aramid, para-aramid, flame resistant cellulosic material, flame resistant wool, flame resistant polyester, polyvinyl alcohol, polytetrafluoroethylene, polyvinyl chloride, polyetheretherketone, polyetherimide, polysulfar, polychlal, polyimide, polyamide, polyimideamide, polyolefin, polybenzoxazole, polybenzimidazole, carbon, modacrylic, ~~and or~~ melamine.

15. (Original) The fabric of claim 13, wherein the relatively tough yarns are arranged in a grid pattern within the fabric body.

16. (Original) The garment of claim 15, wherein the grid pattern is formed by single relatively tough yarns.

17. (Currently Amended) The garment of claim 15, wherein the grid pattern is formed by groups of two or more relatively tough yarns that are woven ~~along with each other together~~ in the fabric body.

18. (Currently Amended) The garment of claim 13, wherein at least some of the filament yarns ~~include~~ comprise a filament ~~composed of~~ comprising at least one of polybenzoxazole, carbon, ~~and or~~ high density polyethylene.

19. (Currently Amended) The garment of claim 13, wherein at least some of the filament yarns ~~include one or more~~ comprise at least one polybenzoxazole filaments.

20. (Currently Amended) The garment of claim 13, wherein at least some of the filament yarns have a weight between ~~weights in the range of~~ approximately 50 ~~to~~ and 600 denier, inclusive.

21. (Currently Amended) The fabric of claim 13, wherein ~~the at least some the~~ relatively tough yarns further ~~include~~ comprise a spun yarn ~~composed of~~ comprising at least one of a meta-aramid, para-aramid, flame resistant cellulosic material, flame resistant wool, flame resistant polyester, polyvinyl alcohol, polytetrafluoroethylene, polyvinyl chloride, polyetheretherketone, polyetherimide, polysulfar, polychlal, polyimide, polyamide, polyimideamide, polyolefin, polybenzoxazole, polybenzimidazole, carbon, modacrylic, ~~and or~~ melamine.

Serial No. 10/715,317
Filing Date: November 17, 2004
Amendment and Response
Page 5 of 10

22. (Currently Amended) The fabric of claim 21, wherein at least some of the spun yarns have yarn counts ~~of between~~ approximately 8 ~~to~~ and 55, inclusive.

23. (Currently Amended) The fabric of claim 13, wherein the at least some the relatively tough yarns further ~~include~~ comprise a plurality of flame resistant fibers.

24. (Currently Amended) The fabric of claim 23, wherein at least some of the flame resistant fibers ~~are composed of~~ comprise at least one of a meta-aramid, para-aramid, flame resistant cellulosic material, flame resistant wool, flame resistant polyester, polyvinyl alcohol, polytetrafluoroethylene, polyvinyl chloride, polyetheretherketone, polyetherimide, polysulfar, polychlal, polyimide, polyamide, polyimideamide, polyolefin, polybenzoxazole, polybenzimidazole, carbon, modacrylic, ~~and or~~ melamine.

25. (cancelled)

26. (Cancelled)

27. (New) A flame resistant fabric, comprising:

a plurality of flame resistant body yarns that form a body of the fabric; and

a plurality of relatively tough yarns provided in discrete positions within the fabric body, the relatively tough yarns comprising a filament yarn;

wherein the relatively tough yarns do not protrude beyond an outer surface of the fabric body.

28. (New) The fabric of claim 27, wherein the relatively tough yarns have a diameter that is the same or smaller than a diameter of the body yarns.

29. (New) A flame resistant fabric, comprising:

a plurality of flame resistant body yarns that form a body of the fabric; and

a plurality of relatively tough yarns provided in discrete positions within the fabric body, the relatively tough yarns comprising a filament yarn and a spun yarn that are plied together;

wherein the relatively tough yarns do not protrude beyond an outer surface of the fabric body.

30 (New) The fabric of claim 30, wherein the relatively tough yarns have a diameter that is the same or smaller than a diameter of the body yarns.